

FIG. 5

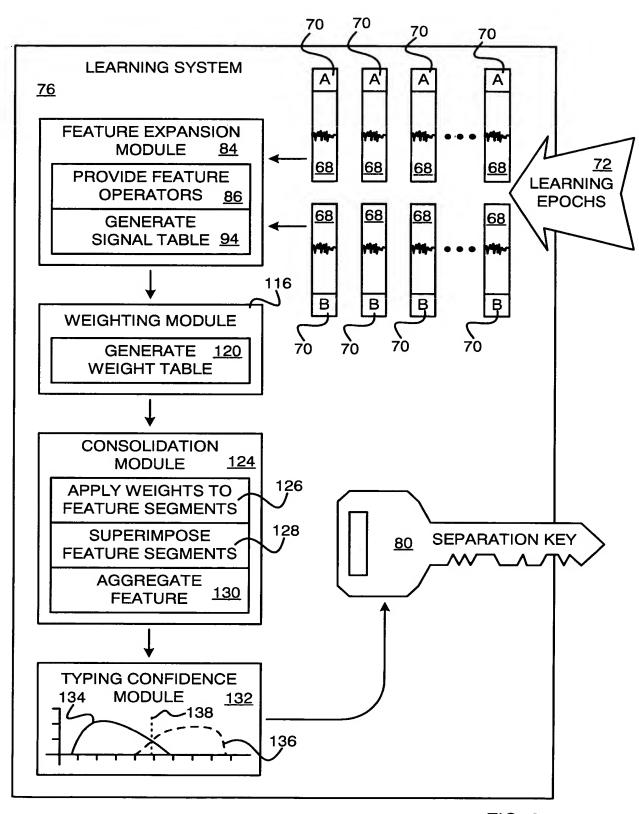
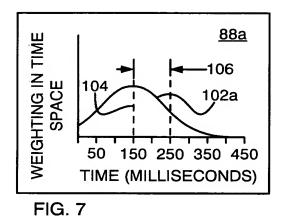
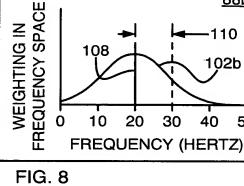


FIG. 6





108

88b

50

110

102b

40

30

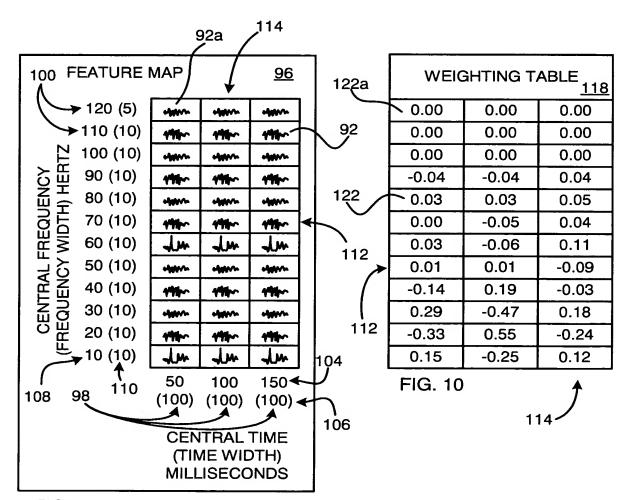
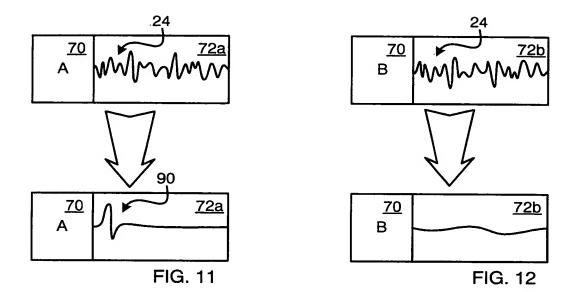


FIG. 9



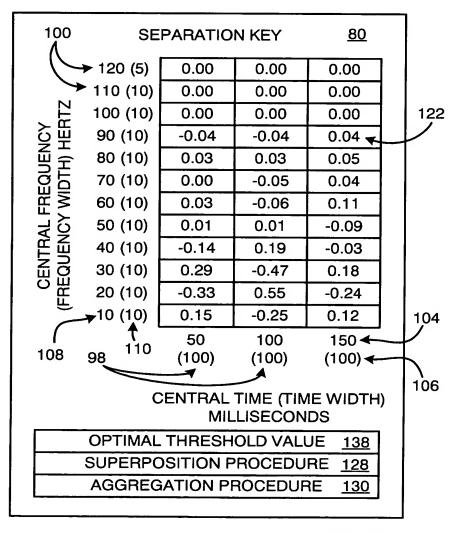


FIG. 13

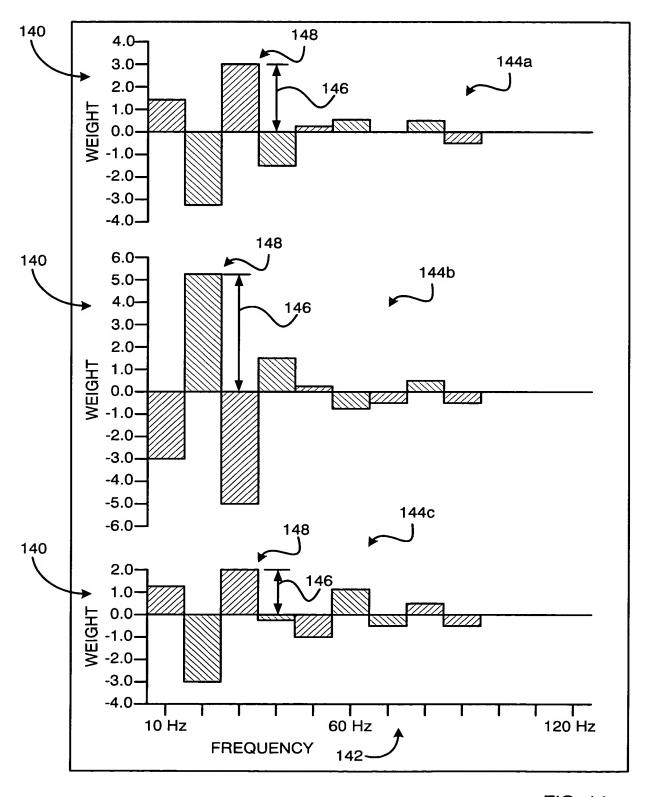
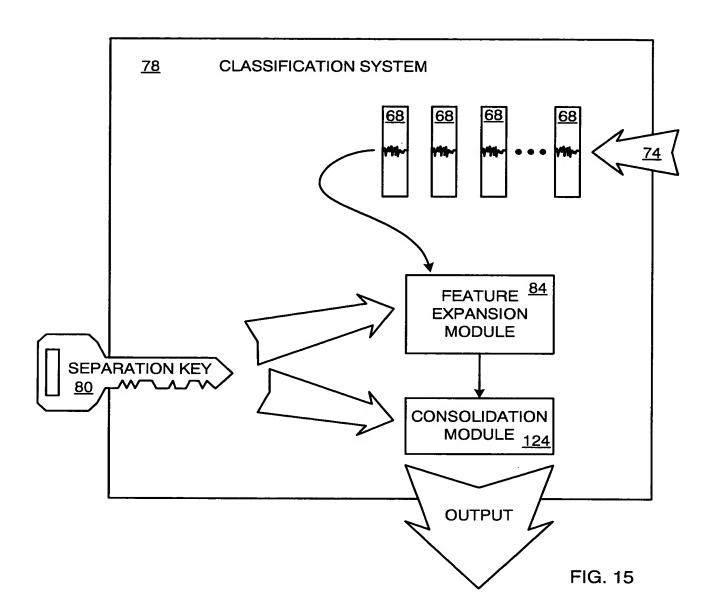


FIG. 14



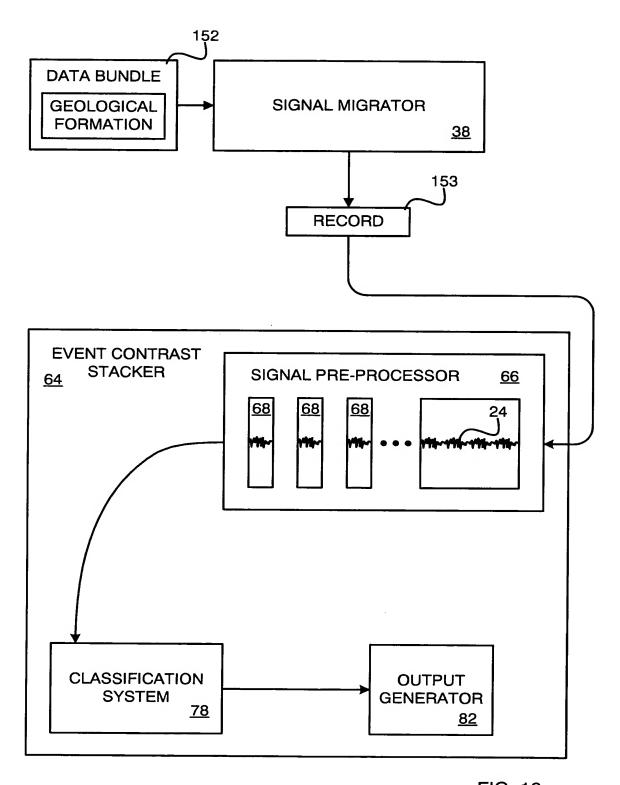
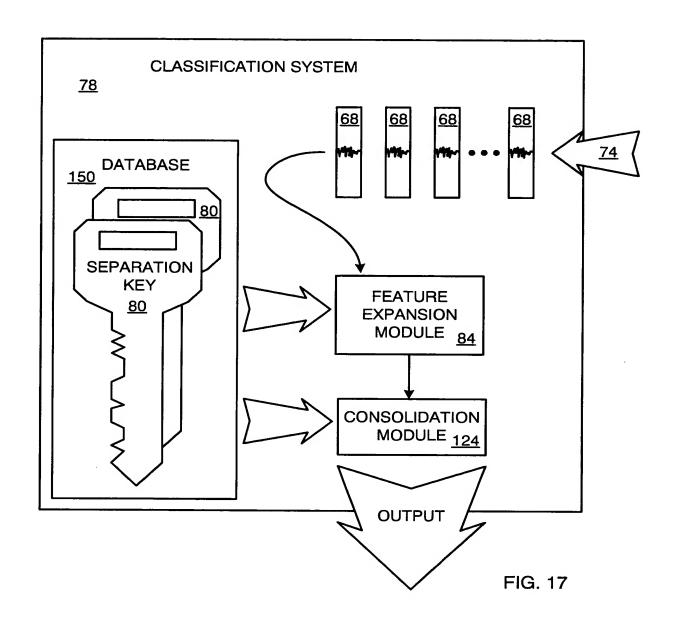


FIG. 16



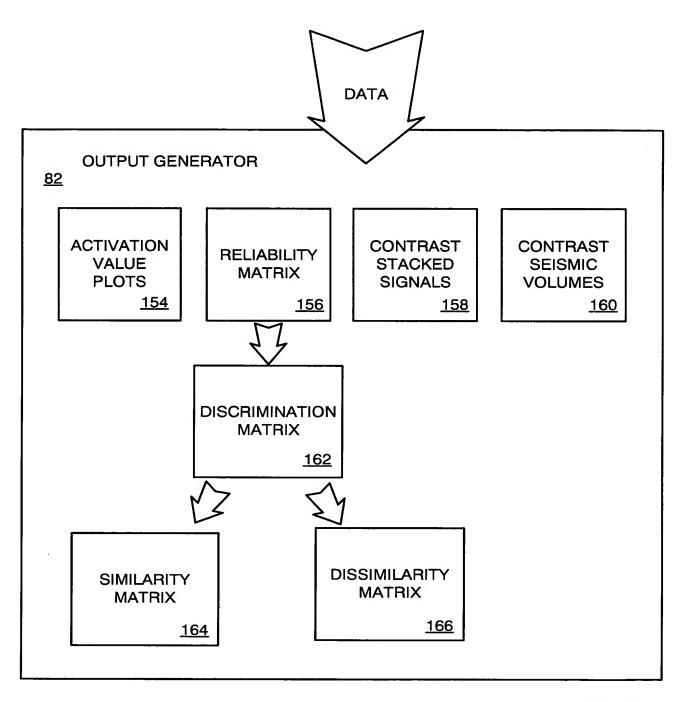
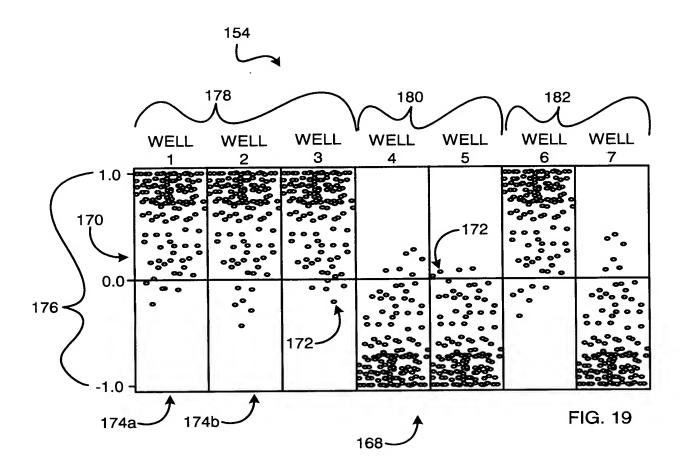


FIG. 18



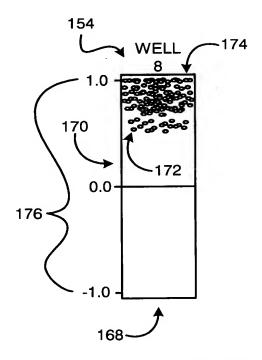


FIG. 20

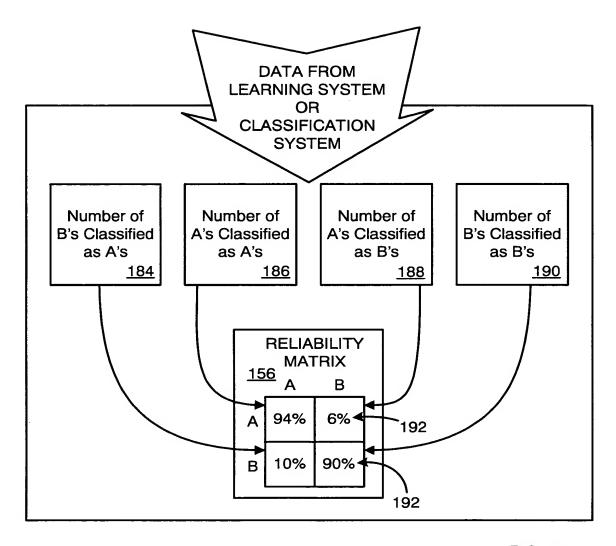
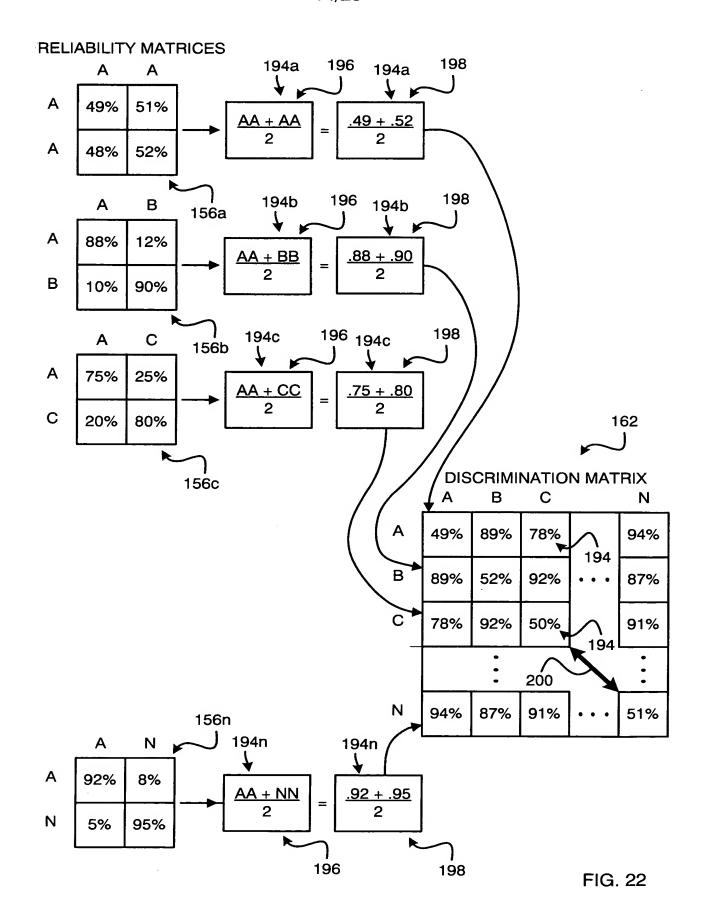
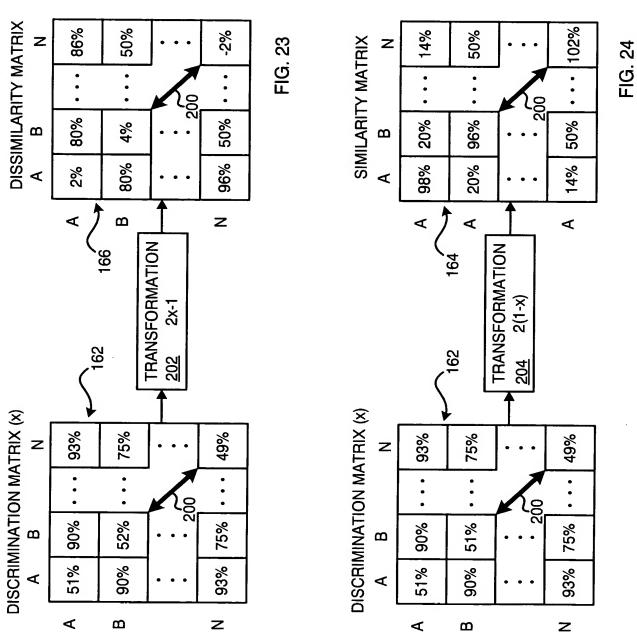


FIG. 21





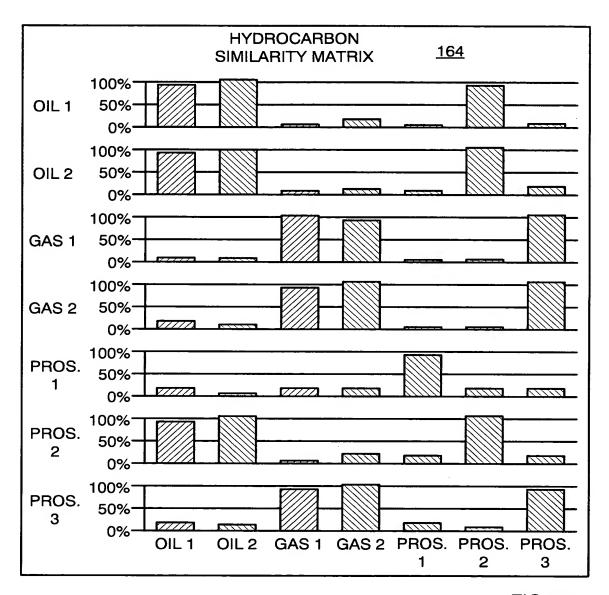
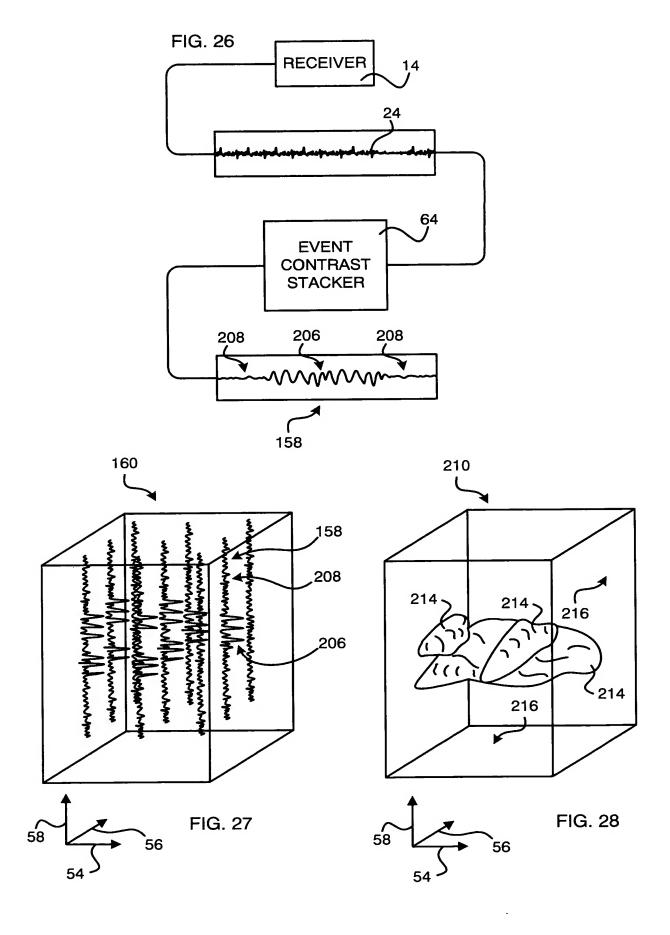
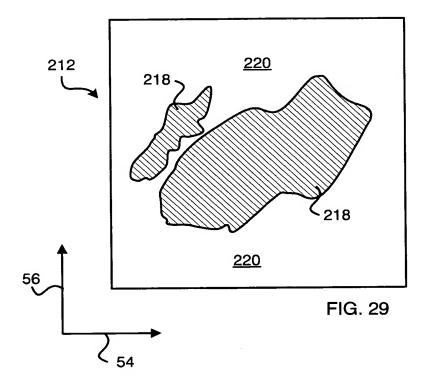
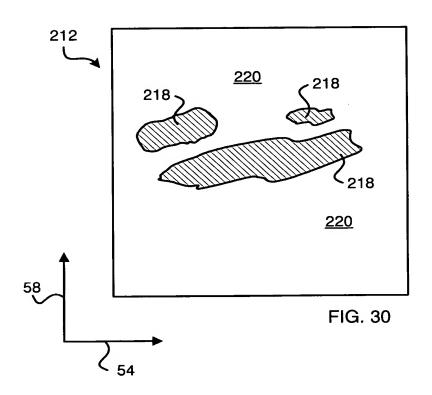
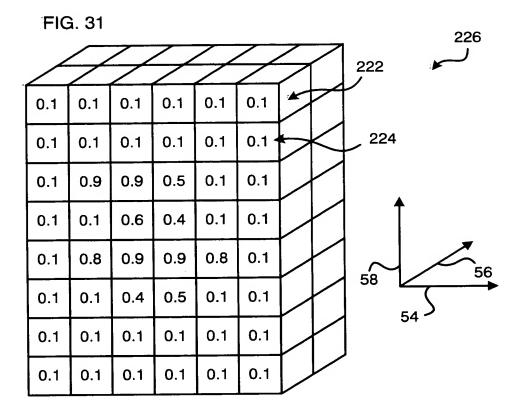


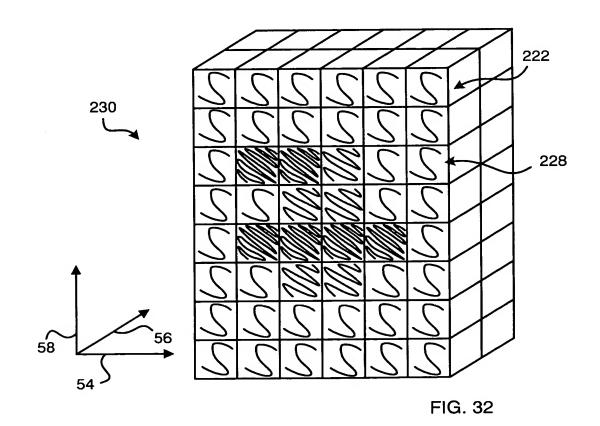
FIG. 25











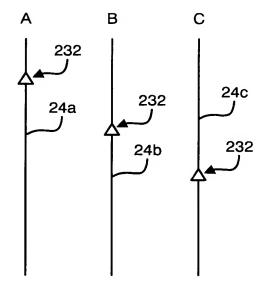


FIG. 33

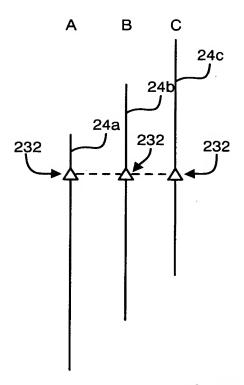
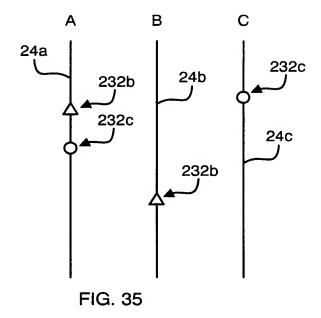
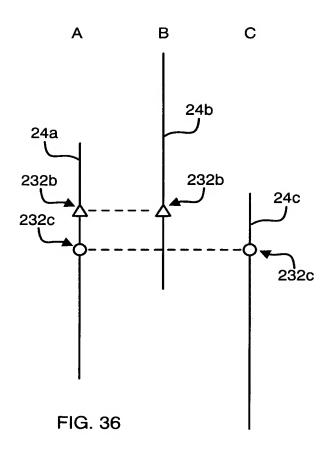
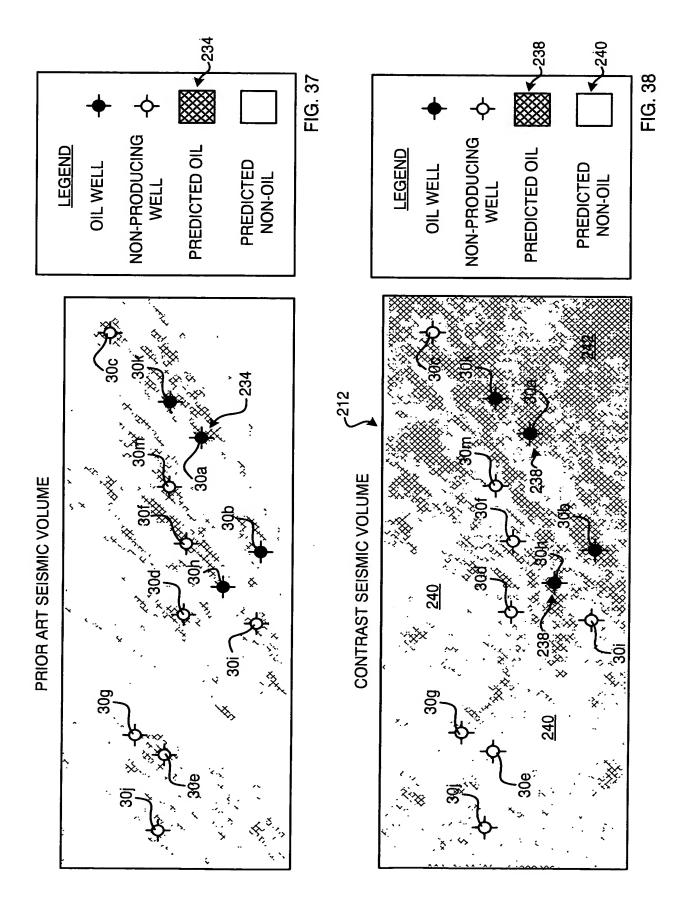
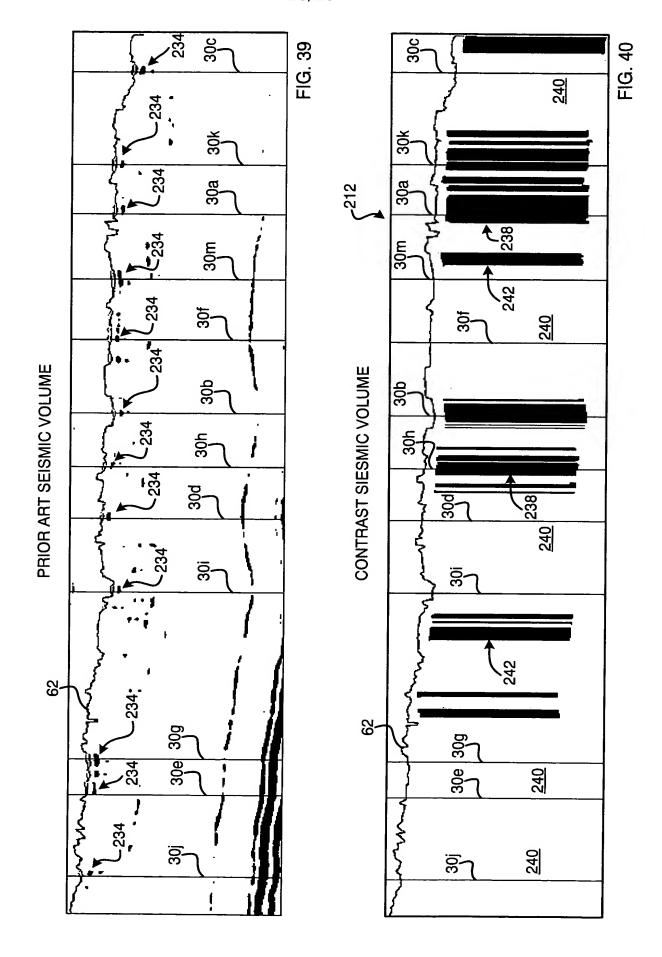


FIG. 34









				236		
30a —	WELL	STATE	TIME	TRACES	USE	
30b	1	OIL	0.976 - 1.176	169	CLASSIFY	
30c	2	OIL	0.964 - 1.164	167	LEARN	
30d	3	DRY	0.990 - 1.190	158	LEARN	
30e	4	DRY	0.944 - 1.144	177	CLASSIFY	
30f	5	WET	0.926 - 1.126	154	LEARN	
30g	6	WET	0.960 - 1.160	171	CLASSIFY	
30h	7	UNKNOWN	0.924 - 1.124	159	CLASSIFY	
30i —	8	UNKNOWN	0.950 - 1.150	163	CLASSIFY	
30	9	UNKNOWN	0.958 - 1.158	165	CLASSIFY	
30k	10	UNKNOWN	0.920 - 1.120	163	CLASSIFY	
30m	11	UNKNOWN	0.972 - 1.172	155	CLASSIFY	
<b>*</b>	12	UNKNOWN	0.966 - 1.166	170	CLASSIFY	

FIG. 41

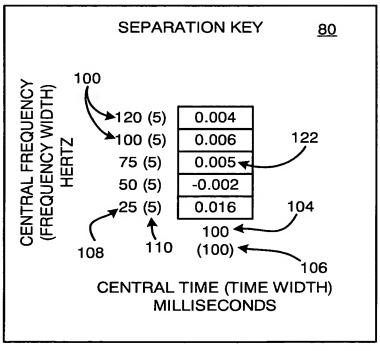
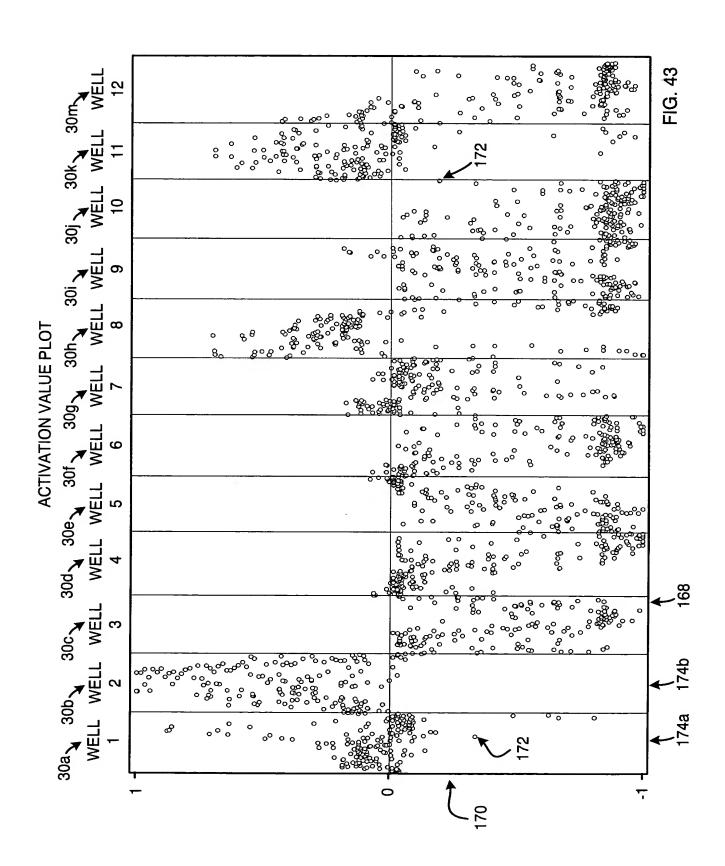
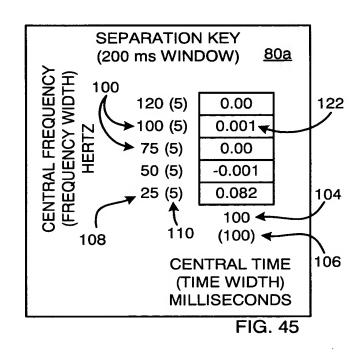
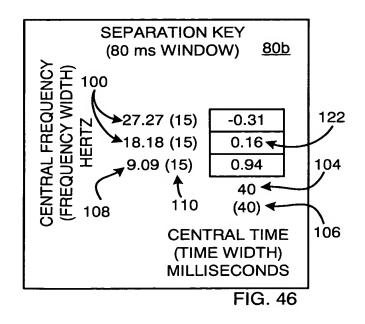


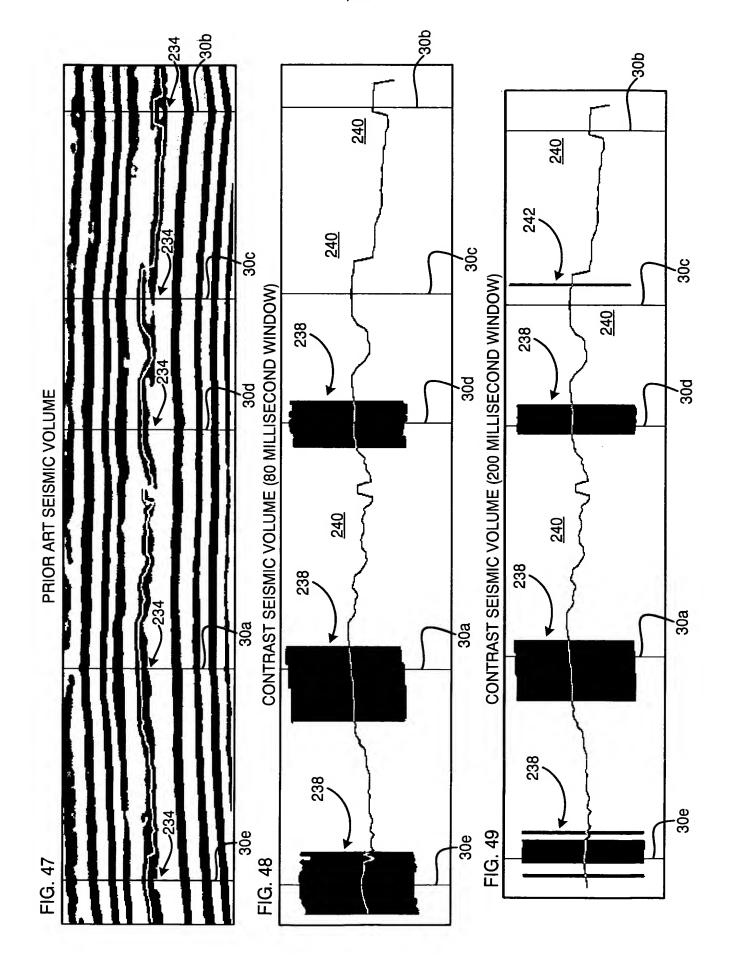
FIG. 42



				.236			
30a 30b 30c 30d 30e	WELL	STATE	TIME	TRACES	USE		
	1	GAS	0.75 - 0.95	481	LEARN		
	2	WET	0.75 - 0.95	606	LEARN		
	3	TEST	0.75 - 0.95	441	CLASSIFY		
	4	TEST	0.75 - 0.95	431	CLASSIFY		
	5	TEST	0.75 - 0.95	483	CLASSIFY		
	FIG 4	4	<u> </u>				







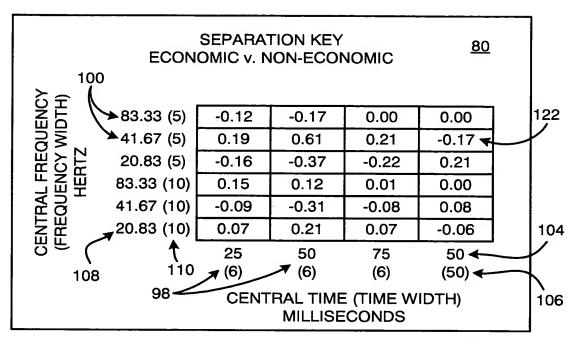


FIG. 50

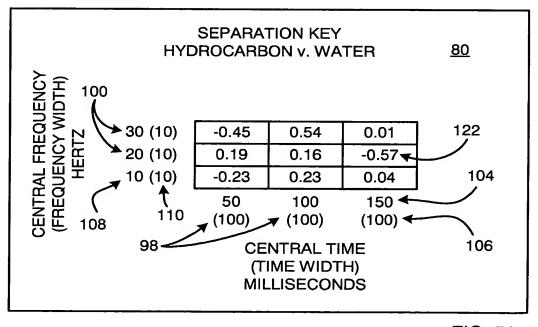


FIG. 51